

LISTING OF THE CLAIMS:

10/518332
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1. (Currently Amended) ~~Use of a~~ A combination antenna which is integrated into ~~the~~ an unscrewable head fuse (11) of an item of artillery ammunition for frequencies which are to be processed in the region of the fuse (11) of a radar proximity fuse and a navigational satellite receiver,

wherein a ring disc-shaped slot antenna (17) which is disposed transversely with respect to the fuse axis opens, respectively, radially ~~on the one hand~~ outwardly through ~~the~~ a conical wall of the fuse and ~~on the other hand~~ inwardly into a resonator ring chamber (28) ~~of~~ having an axial length which is substantially greater than the axial thickness of ~~the~~ a slot (13) of the antenna, for operation ~~with~~ in addition to the geometrically governed resonance frequency for navigational tasks, at a further resonance frequency for tasks of the radar proximity fuse, said further resonance frequency being determined by the dielectric of an electrically non-conducting hollow cylinder (29) which is introduced into the resonator ring chamber (28) ~~and not in the absence of~~ representing an integral multiple in relation to the navigational resonance frequency.

2. (Currently Amended) An antenna according to claim 1, wherein in addition to ~~characterised in~~ ~~that besides~~ the actual resonator ring chamber (28), the antenna slot (13) which ~~goes therearound~~ extends about said chamber and extending radially therefrom is also ~~dielectrically~~ filled with a dielectric.

3. (Currently Amended) An antenna according to claim 1, wherein integrally or claim 2 ~~characterised in that provided in one piece~~ with the filling of the ring chamber (28) in the form of the hollow cylinder (29) is a flange-shaped collar (30) which extends ~~flange-like therearound~~ thereabout and which extends radially as far as the conical peripheral wall surface of the fuse (11) through the slot (13).

4. (Currently Amended) An antenna according to the ~~preceding claim characterised in that~~ claim 1, wherein the collar (30) axially fills the slot (13) and terminates flush with the outside surface of the peripherally slit fuse wall (12).

5. (Currently Amended) An antenna according to ~~one of the preceding claims characterised in that~~ claim 1, wherein a frequency-dividing means leads from the slot antenna (17) to ~~the a~~ a transmitting-receiving unit of a radar fuse.

6. (Currently Amended) An antenna according to ~~one of the preceding claims characterised in that~~ claim 1, wherein a two-wire antenna cable is connected to at least two locations, which are disposed axially one in front of the other, ~~of at~~ at the inside edges of the slot (13), wherein four such connecting locations are provided at the corners of a notional square concentric with respect to the fuse axis and are brought together by ~~way of~~ a matching network to the ~~standardised~~ standardized impedance of a coaxial line leading to the antenna amplifier.

7. (Currently Amended) An antenna according to ~~the preceding claim characterised in that it is provided with~~ claim 6, including a dielectric disc (32) which serves as a wiring carrier for the network between the four mutually orthogonal connections to the inner end of the slot (13)[,] which is faces towards the ring chamber (28).

8. (Currently Amended) An antenna according to ~~one of the preceding claims characterised in that it~~ claim 1, wherein there is provided ~~with~~ a circuit carrier disc (32) which has a network for bringing together a plurality of connecting locations disposed along an inner edge of the slot (13') to a wire of an antenna line (20).

9. (Currently Amended) An antenna according to claim 8, ~~wherein characterised in that~~ wherein the inner edge of the slot (13') is ~~given~~ formed by a hoop (35) which is inserted at ~~the~~ an end face into one of the hollow-cylindrical walls ~~(27 or 31)~~ (27, 31) of the ring chamber (28).